

THE TORSTENIUS COLLECTION OF SCANDINAVIAN LEPIDOPTERA

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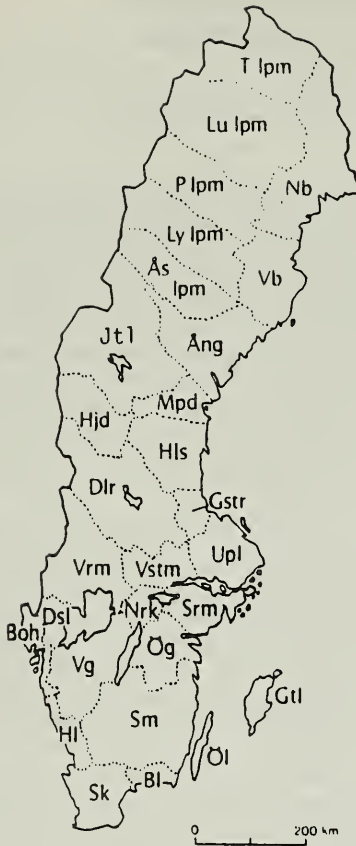
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In parts of Scandinavia the western extension of the great European and Eurasian coniferous forest, the taiga, is the dominant habitat. Swamps, lakes, rivers and river deltas add diversity to these tall, dark forests of the north temperate zone. Travel northwards and you find the pines and spruces giving way to birch which, unlike elsewhere in Europe, forms the tree-line on the northern mountains. Beyond lies the treeless tundra and the Arctic Sea. Travel westwards across the rocky spine which separates Sweden from Norway to find the high altitude wilderness areas of the Dovrefjell, Jutonheimen and Hardangervidda. Travel eastwards to the shores of the land-locked Gulf of Bothnia and south to the Baltic and its thousands of islands, of which the largest are Öland and Gotland. The pastoral lowlands of Denmark and Skåne in Sweden are notable for their coastlines, lakes and marshes but give no hint of the vast areas of wild country and low population to which they give access.

Within the easily accessible literature, the diversity of butterflies in Scandinavia has been most ably presented by Howard and others in six papers in *The Entomologist's Record* between 1964 and 1976. The English translation of Henriksen and Kreutzer's useful book (1982) provides a comprehensive text and a wealth of coloured illustrations of the life histories and habitats of the Scandinavian butterflies. Kruys (1991) has given an account of the butterflies of Östergötland, one of the southern counties of Sweden, with notes of the habitat. The moths are well served for English readers by Skou's illustrated work (1986) on the Geometridae of Europe, and it is to be hoped that an English edition of his recent (1991) volume on the Noctuidae will follow soon. Kettlewell (1973) discussed in Chapter 6 of *The evolution of melanism* certain aspects of non-industrial melanism as illustrated by moths in Scandinavia, quoting numerous examples. Dr E. B. Ford, in his book *Moths* in the New Naturalist series (1955) has a valuable chapter on relict species and arctic-alpine faunas and refers to, among others, the three *Anarta* species which frequent the northern mountains and moorlands of Britain and Scandinavia. In Lapland, as Dr Guy Howard has pointed out (1969), the number of *Anarta* and closely related species rises to 13. Northern Scandinavia having much in common with northern Asia and North America at these latitudes, it is very likely that a significant number of its moths and butterflies could be shown to have a circumpolar distribution. Scandinavia, with its friendly, helpful people and its enormous range of habitats through 15 degrees of latitude, has much to offer the visiting naturalist.

When in Stockholm in June 1977, I had the good fortune to be introduced to Bankjuristen Stig Torstenius, a member of this Society and one of the leading lepidopterists in Sweden. I was invited to his home in Stocksund and spent an unforgettable evening going through what must be one of the major European collections of Lepidoptera in private hands. I came away with an astonishing offer: if the Society would accept it, Stig Torstenius would provide the material for a representative collection of Scandinavian macrolepidoptera, to be held at the Society's rooms, then at South Audley Street.

†Deceased.



Bl	= Blekinge
Boh	= Bohuslän
Dlr	= Dalarna
Dsl	= Dalsland
Gstr	= Gästrikland
Gtl	= Gotland
Hjd	= Härjedalen
Hl	= Halland
Hls	= Hälsingland
Jt1	= Jämtland
Lu lpm	= Lule lappmark
Ly lpm	= Lycksele lappmark
Mpd	= Medelpad
Nb	= Norrbotten
Nrk	= Närke
P lpm	= Pite lappmark
Sk	= Skåne
Sm	= Småland
Srm	= Södermanland
T lpm	= Torne lappmark
Upl	= Uppland
Vb	= Västerbotten
Vg	= Västergötland
Vrm	= Värmland
Vstm	= Västmanland
Ang	= Ångermanland
As lpm	= Åsele lappmark
Ög	= Östergötland
Öl	= Öland

Fig. 1. Provinces and Lapp-districts of Sweden.

Gaston Prior, then Secretary, and Eric Bradford, then Curator, were very ready to agree that this generous offer should be accepted, a view endorsed by the Council at its meeting in August of that year. At first two, and later three, 10-drawer Hill units were made available and by early October 1977 the first consignment of about 300 specimens was safely received. No time was to be lost if these were to be shown at the Annual Exhibition on 29 October, and in fact 159 species of 22 families were exhibited. This early flurry of activity was but the prelude to an extended period of assembling and cataloguing the material prior to curation. Two drawers were shown at the 1978 Exhibition and a further ten in 1979. By 1981, 20 drawers were installed at South Audley Street, the remaining 10 drawers following a year later. No material was sent by post or carrier, all the many consignments being brought over by Stig and myself and our families; by car, ship and air. Nothing was damaged.

Long runs, even of variable species, were at no time contemplated, the general plan being on the basis of two males and two females of each species. Some

rarities or immigrants were fewer than this, some valuable paratypes were more. About 900 species and subspecies, forming some 90% of the Swedish total, are represented. I have never counted up the number of specimens, but it must be between three and four thousand. As very little of this was withdrawn from the donor's main collection, most of it being specially prepared and set for the purpose from reserve and newly collected material, members can be in no doubt of the generosity and time-consuming effort involved.

The Society has in its library a major work on the Lepidoptera of Sweden: *Svenska Fjärilar* by Nordstrom, Wahlgren, Tullgren and Ljungdahl, published in Stockholm in 1941. This large, beautifully illustrated volume was invaluable in coming to terms with the significant number of species in the consignments which were not to be found in the normally accessible reference works in Britain. Inevitably, there were problems with the nomenclature. That in the three useful handbooks by Bertil Gullander (1971) which I acquired was frequently at variance with the revised Kloet and Hincks *Checklist* of 1972. But it was from the outset seen to be very desirable to produce a catalogue of the collection, and the full catalogue which eventually came into existence in 1982 was based on the best information to be held at the time. The label list of Bradley and Fletcher, which has been widely accepted since its appearance in 1979, was not available when curation of the collection began in earnest in 1978. The excellent label list published by T. W. Harman, being in conformity with Kloet and Hincks, was adopted for the first drawers and, rightly or wrongly, was continued for the remainder. Recognizing the rapid establishment of the Bradley and Fletcher list as the norm, the 1982 catalogue included the serial numbers of both lists.

Further material was added to the collection in 1984 and 1985, often the results of expeditions to remote parts of Scandinavia to collect species previously not represented. The enforced removal from South Audley Street led to the whole collection coming again under my roof, affording the opportunity to update the nomenclature, fill in gaps and add more new species. The catalogue is in course of revision to include these additions and the changes made necessary by the six (at least) major works on the Lepidoptera of Scandinavia which have appeared since the catalogue was written in 1982.

The data labels are a notable feature of the collection, being fully visible and of uniform presentation. Sweden, the country of origin of most of the material, is divided into 29 Lapp-districts and Provinces. Line 1 of each data label gives the standard abbreviation for the province (or county), line 2 the location, line 3 the date. Long (38-mm) continental pins are used throughout, so that all the information may be read without removing the specimen. Some of the material is from such outstanding areas of Norway as the Dovrefjell and the Jutonheimen, indicated on the labels by 'NO', the abbreviation for the Norwegian Nordland. The collection has been designed to have visual appeal, with fresh, unfaded material meticulously set, presenting a user-friendly introduction to a lepidopterous fauna largely drawn from the land of Linnaeus.

The list which follows is not the complete catalogue, copies of which may be had on loan from the Curator at the Pelham-Clinton Building, Dinton Pastures. It is a selection to highlight those species which are normally not to be found in the Society's other collections, and takes note of the changes in nomenclature. Where the genus has changed, the earlier generic name is given in brackets; where the specific name, or sometimes the whole name, has changed, the earlier usage is given as synonymy. Even the most cursory examination of the list will confirm that here, for perhaps the first time in Britain, is displayed in one fully accessible collection the remarkable diversity of species and forms inhabiting the highest

latitudes in Europe. It includes most of the notable species to which the literature draws special attention.

I am most grateful to Mr Barry Goater for his helpful comments and for his valued assistance with the recent changes in nomenclature.

REFERENCES AND FURTHER READING

- Bingman, I. 1984. *National parks in Sweden*. English Edition: Box 1302, S-171 25 Solna, Sweden.
- de Freina & Witt, 1987, 1990. *Die Bombyces und Sphinges der Westpalaearktis* 2 vols. München.
- Fibiger, M. & Hacker, H. 1990. *Systematic list of the Noctuidae of Europe*. Esperiana, Band 2. Staffelstein & Schwanfeld.
- Ford, E. B. 1955. *Moths*. The New Naturalist series. Collins, London.
- Goater, B. & Mikkola, K. 1988. The taxonomic status of *Apamea exulis*, *assimilis*, *maillardi* and *zeta* (Noctuidae). *Entomologist's Ent. Gaz.* 39: 249-257.
- Gullander, B. 1971. *Nordens dagfjärilar* (Butterflies). Norstedt & Soner, Stockholm.
- Gullander, B. 1971. *Nordens svärmare och spinnare*. Norstedt & Soner, Stockholm.
- Gullander, B. 1971. *Nordens nattflyn* (Noctuidae). Norstedt & Soner, Stockholm.
- Henriksen, H. J. & Kreutzer, I. B. 1982. *The butterflies of Scandinavia in nature* (English edition). Skandinavisk Bogforlag, Odense, Denmark.
- Higgins, L. G. 1975. *The classification of European butterflies*. Collins, Glasgow.
- Higgins, L. G. & Riley, N. D. 1970. *A field guide to the butterflies of Britain and Europe*. Collins, London.
- Howard, G. 1969. Lepidoptera in Lapland. *Entomologist's Rec. J. Var.* 81: 75-77.
- Johnson, G. 1964. Abisko revisited. *Entomologist's Rec. J. Var.* 76: 259-260.
- Johnson, G. 1969. Butterflies in Scandinavia. *Entomologist's Rec. J. Var.* 81: 316-318.
- Kettlewell, B. 1973. *The evolution of melanism*. Clarendon Press, Oxford.
- Kruys, I. 1991. Notes on the butterflies of Östergötland, Sweden. *Br. J. Ent. Nat. Hist.* 4: 77-82.
- Marsden, W. 1980. *Lapland*. The World's wild places series. English Edition. Time-Life Books, Amsterdam.
- Mentzer, E. von & Moberg, A. 1987. *Agrotis luehri* sp.n. from Norway and its relation to the group *a. fatidica* (Noctuidae). *Ent. Tidsk.* 108(1-2): 33-43.
- Nordstrom, Wahlgren, Tullgren & Ljungdahl. 1941. *Svenska Fjärilar*. Stockholm.
- Perceval, M. J. 1974. Gargia, Finnmark, July 1973. *Entomologist's Rec. J. Var.* 86: 81-84.
- Shaw, M. R. 1971. Butterflies in Arctic Scandinavia. *Entomologist's Rec. J. Var.* 83: 371-378.
- Skou, P. 1986. *The geometroid moths of North Europe*. English Edition. Copenhagen.
- Skou, P. 1991. *Nordens Ugler*. Copenhagen.
- Svensden, P. 1976. Collecting butterflies in Denmark. *Entomologist's Rec. J. Var.* 88: 47-50.
- Torstenius, S. 1971. *Orodemnius cervini* Fallou ssp. *fridolini* ssp.n. (Arctiidae). *Ent. Tidsk.* 92(3-4): 173-177.

During the Society's move from the Alpine Club to its new headquarters at Dinton Pastures, the Torstenius collection was maintained and curated by Brad Ashby, allowing him to catalogue the collection and prepare this paper. The cabinets containing the collection are now at Dinton Pastures.

The following list of species is not a complete catalogue, rather it is a selection of interesting species, subspecies and races which will be of interest to British as well as European lepidopterists.

SELECTION OF SPECIES IN THE TORSTENIUS COLLECTION

Drawer 1

- Hepialidae 6 spp. *Gazorycta (Hepialus) fuscoargentea* B.-Haas; Torne lappmark.
 Cossidae 2 spp. *Lamellocossus (Cossus) terebrus* D. & S.; Uppland.
 Zygaenidae 8 spp. *Zygaena minos* D. & S. = *diaphana* Stdgr; Småland, Öland, Skåne.
Z. osterodensis Reiss.; Uppland.
Z. exulans Hochw. ssp. *vanadis* Palm.; Torne lappmark.
Z. viciae D. & S. = *meliloti* Esp. ssp. *nigrina* Bgff.; Skåne.
- Limacodidae 1 sp.
 Sesiidae 3 spp. *Pennisetia (Bembecia) hylaeformis* Lasp.; Uppland.

Drawer 2

- Hesperiidae 11 spp. *Carterocephalus silvicolus* Meig.; Uppland.
Pyrgus alveus Hübn. ssp. *scandinavicus* Strand; Gotland.
P. armoricanus Ob.; Skåne.
P. andromedae Wallgr.; Torne lappmark.
P. centaureae Ramb.; Lappland, Ångermanland.
- Papilionidae 3 spp. *Parnassius apollo* L.; Uppland.
P. apollo L. ssp. *linnaei* Bryk.; Gotland.
P. mnemosyne L. ssp. *romani* Bryk.; Uppland.
Papilio machaon L. ssp. *bigenerata* Ver.; Gotland.
- Pieridae 12 spp. *Colias hecla* Lefeb.; Torne lappmark.
C. nastes Boisd.; Torne lappmark.
C. palaeno L.; Torne lappmark, Dalarna.

Drawer 3

- Aporia crataegi* L.; Halland, Uppland.
Pieris napi L. ssp. *bicolorata* Pet.; Lappland, Jämtland.
 ssp. *adalwinda* Fruhst.; Torne lappmark.
- Lycaenidae 21 spp. *Nordmannia ilicis* Esp.; Skåne.

Drawer 4

- Lycaena helle* D. & S.; Ångermanland, Jämtland.
Heodes virgaureae L.; Uppland, Skåne.
 ssp. *oranula* Fr.; Norrbotten.
Palaeochrysophanus hippothoe L. ssp. *stiberi* Gerh.; Lappland.
 ssp. *euridice* Rott.; Skåne.
 ssp. *hippithoe* L.; Uppland.
- Lycaeides idas* L.; Uppland, Dalarna.
 f. *lapponicus* Gerh.; Torne lappmark.
L. argyrognouon Bergstr.; Småland.
Aricia nicias Meigen ssp. *scandica* Wahl.; Hälsingland, Gästrikland.
Albulina orbitulus de Prunner; Jämtland; also a series from Norway in Drawer 5.
Eunedonia eunedon Esp.; Uppland.
 ssp. *praticola* Burr.; Gotland.
 ssp. *borealis* Wahl.; Norrbotten.
- Agriades glandon* de Prunn. ssp. *aquilo* Boisd.; Torne lappmark.
Vacciniina optilete Knoch.; Uppland, Närke.
 ssp. *cyparissus* Hübn.; Torne lappmark.

Drawer 5

- Plebicula dorylas* D. & S.; Skåne, Öland, Gotland.
Plebicula (Agrodiaetus) amanda Schn.; Öland, Uppland, Dalarna.

Drawer 5 (cont.)

Cyaniris semiargus Rott.; Uppland, Skåne.
Glaucopsyche alexis Poda ssp. *schneideri* Stdgr.; Gästrikland.
Maculineaalcon D. & S. ssp. *rebeli* Hirshke; Skåne.
Scolitantides orion Pall.; Uppland.
 Nymphalidae 31 spp. *Euphydryas (Hypodryas) matura* L.; Uppland.
E. iduna Dalman; Torne lappmark.

Drawer 6

Fabriciana niobe L.; Södermanland, Uppland.
Brenthis ino Rott.; Jämtland, Gästrikland, Uppland.
Boloria napaea Hffsgg.; Torne lappmark, Jämtland.
B. aquilonaris Stichel; Torne lappmark, Jämtland, Uppland.

Drawer 7

Proclossiana eunomia Esp.; Torne lappmark, Dalarna, Ångermanland.
Clossiana freija Thunb.; Torne lappmark.
C. polaris Boisd.; Torne lappmark.
C. thore Hübn. ssp. *borealis* Stdgr.; Torne lappmark.
C. frigga Thunb.; Torne lappmark, Lule lappmark.
C. improba Butler ssp. *improbula* Bryk.; Torne lappmark.
C. chariclea Schneider; Torne lappmark.
Melitaea diamina L.; Uppland, Skåne.
Mellicta britomartis Assm.; Gästrikland, Uppland.

Drawer 8

Satyridae

20 spp.

Lasiommata maera L.; Uppland.
L. petropolitana F. ssp. *ominata* Krul.; Södermanland.
Lopinga achine Scop.; Gotland.
Erebia embla Thunb.; Lule lappmark, Dalarna.
E. pandrose Borkh.; Torne lappmark, Härjedalen.
 ssp. *lappona* Thunb.; Torne lappmark.
E. disa Thunb.; Torne lappmark.
E. ligea L.; Gästrikland, Uppland.
 ssp. *dovreensis* Strd.; Torne lappmark.
E. medusa D. & S. ssp. *polaris* Stdgr.; Finnmark, Norway.
Oeneis norna Thunb.; Torne lappmark.
O. bore Schn.; Torne lappmark.
O. jutta Hübn.; Lule lappmark, Dalarna, Uppland.
Coenonympha hero L.; Dalarna.
C. arcania L.; Uppland.

Drawer 9

Lasiocampidae

13 spp.

Eriogaster arbusculae Freyer; Härjedalen, Hjerkin (Norway).
Dendrolimus pini L.; Uppland.
Cosmotriche (Selenephera) lunigera Esp.; Torne lappmark, Södermanland.

Saturniidae

2 spp.

Agria tau L.; Skåne

Lemoniidae

1 sp.

Lemonia dumi L.; Uppland.

Drawer 10

Drepanidae

6 spp.

Drepana curvatula L.; Skåne.

Thyatiridae

9 spp.

Achlya flavicornis L. ssp. *finmarchica* Schöy; Jämtland.

Geometridae

301 spp.

The systematic treatment of the Geometridae is contained in drawers 11–16. These were made up in 1978. Late additions (17 species) are in drawer 10.

Drawer 10 (cont.)

Scopula decorata D. & S.; Gotland.
Eulithis testata L. ssp. *insulicola* Stdgr.; Norrbotten.
Ecliptopera capitata H.-S.; Uppland.
Selenia dentaria F., arctic form; Torne lappmark, Norrbotten.
Lycia lapponaria Boisd.; Norway.

Drawer 11

Jodis putata L.; Västerbotten, Gästrikland, Södermanland.
Cyclophora quercimontaria Bastelb.; Uppland.
Rhodostrophia vibicaria Cl.; Gästrikland, Uppland.
Scopula incanata L.; Öland, Medelpad, Uppland.
Idaea pallidata D. & S.; Ångermanland, Gästrikland, Uppland.
I. deversaria H.-S.; Skåne.
Lythria rotaria F. = *purpuraria* L.; Öland, Skåne.
 ssp. *sordidaria* Zett.; Skåne.

Drawer 12

Xanthorhoe abrasaria H.-S.; Torne lappmark.
X. annotinata Zett.; Torne lappmark.
Epirrhoe pupillata Thunb.; Uppland.
E. hastulata Hübn.; Norrbotten, Uppland.
Entephria polata Dup.; Torne lappmark.
E. byssata Aur.; Torne lappmark.
E. nobiliaria H.-S.; Torne lappmark.

Drawer 13

Chloroclysta infuscata Tengst.; Torne lappmark, Uppland.
C. latefasciata Stdgr.; Uppland.
Thera serraria Lien. & Zell.; Torne lappmark.
Colostygia aptata Hübn.; Hälsingland.
C. turbata Hübn.; Torne lappmark.
Horisme aquata Hübn.; Skåne.
Rheumaptera subhastata Nolck.; Torne lappmark, Jämtland.
Malacodea regelaria Tengstr.; Uppland, Södermanland.
Perizoma minorata Treits. f. *borealis*; Torne lappmark.
P. parallelolineata Retz.; Uppland.
Psychophora sabinii Kirby; Torne lappmark.
Baptia tibiale Esp.; Jämtland. (Drawer 16)

Drawer 14

Eupithecia analoga Djak. = *bilunulata* Zett.; Jämtland,
 Gästrikland.
E. actaeata Wald.; Uppland, Södermanland.
E. orphnata W. Pet.; Öland.
E. sinuosaria Evers.; Småland, Östergötland.
E. gelidata Mosch. = *hyperboreata* Stdgr.; Torne lappmark.
E. innotata Hufn.; Öland, Skåne.
E. conterminata Lien. & Zell.; Uppland, Södermanland.
E. lanceata Hübn.; Uppland.
Aplocera praeformata Hübn.; Finland.
Lithostege farinata Hufn.; Skåne.
Nothocasis (Trichopteryx) sertata Hübn.; Skåne.

Drawer 15

Arichanna melanaria L.; Uppland, Gästrikland.
Semiothisa signaria Hübn.; Uppland.

Drawer 15 (*cont.*)

Itame (Semiolitha) loricaria Evers.; Hälsingland.
Pygmaena fusca Thunb.; Torne lappmark, Jämtland.
Hypoxystis pluviana F.; Uppland.

Drawer 16

Peribatodes secundaria D. & S., Skåne.
Gnophos obfuscata D. & S. = *myrtillata* Hübn.;
 Uppland.
Parietaria vittaria Thunb. = *Gnophos sordaria* Thunb.; Torne
 lappmark.

Drawer 17

Sphingidae 10 spp.

Drawer 18

Notodontidae 28 spp.

Notodonta torva Hübn.; Dalarna, Uppland.
Odontosia sieversi Mén.; Uppland.
Pterostoma palpina Cl. ssp. *lapponicum* Teich.; Norrbotten.
Pygaera timon Hübn.; Småland.
Clostera (Pygaera) anastomosis L.; Skåne.

Thaumetopoeidae 1 sp.

Thaumetopoea pinivora Treits.; Gotland.

Drawer 19

Lymantriidae 11 spp.

Teia (Orgyia) ericae Germ.; Skåne.
Calliteara (Dasychira) abietis D. & S.; Uppland.

Arctiidae 32 spp.

Setina (Endrosa) roscida D. & S.
Eilema lutarella L.; Uppland, Gotland.
Setema (Eilema) cereola Hübn.; Västmanland.

Drawer 20

Ctenuchidae 1 sp.

Pararctia (Hyphoraia) lapponica Thunb.; Torne lappmark.
Hyphoraia aulica L.; Skåne.

Nolidae 6 spp.

Grammia (Orodemnias) quenseli Payk.; Torne lappmark.
Dysauxes ancilla L.; Öland.

Noctuidae 349 spp.

Nola karelica Tengst.; Gästrikland.
 The systematic arrangement of the Noctuidae is contained
 in drawers 21–30 (1979). Late additions (12 species) are
 accommodated in drawer 20.
Agrotis luehri sp. n. Mentzer & Moberg (see References).
 Paratypes (6): Leirdalen, Norway.
Catocala pacta L.; Gotland.

Drawer 21

Euxoa recussa Hübn.; Uppland.
E. adumbrata Evers.; Öland.
E. vitia Esp.; Gotland.
Opigena polygona D. & S.; Uppland, Gotland, Öland.
Actinotia hyperici D. & S.; Östergötland.
Chersotis cuprea D. & S.; Uppland, Västmanland.
Epipselia (Rhyacia) grisescens F. ssp. *septentrionalis* Fibiger;
 Uppland.
Spaelotis clandestina Harris = *suecica* Aur.; Gästrikland.
Coenophila (Eugraphe) subrosea Steph. ssp. *subcaerulea*
 Stdgr.; Västmanland.

Drawer 22

- Xestia tecta* Hübn.; Torne lappmark.
X. kongsvoldensis Grönlein; Torne lappmark.
X. alpicola Zett. ssp. *hyperborea* Zett.; Torne lappmark.
X. ashworthii Doubl. ssp. *burraui* Nord.; Öland.
 ssp. *jutonensis* Schöy.; Uppland.
X. collina Boisid. ssp. *kenteana* Stdgr.; Värmland.
X. lyngei Rebel = *Archanarta lankialai* Grönblom;
 Torne lappmark.
X. (Anomogyna) laetabilis Zett.; Torne lappmark.
X. distensa Evers.; Norrbotten.
X. gelida Sparre-Schneider; Torne lappmark.
X. rhaetica Stdgr.; Hälsingland.
X. borealis Nordstr.; Torne lappmark.
X. speciosa Hübn.; Uppland.
 ssp. *arctica* Zett.; Torne lappmark.
Anomogyna caecimacula D. & S.; Uppland.

Drawer 23

- Protolampra (Cerastis) sobrina* Dup.; Uppland, Västmanland.
Mesogona oxalina Hübn.; Halland.
Lasionycta leucocycla Stdgr. = *Lasiestra dovrensis* Wocke;
 Torne lappmark; Nordland (Norway).
Polia (Anarta) richardsoni Curt.; Torne lappmark.
P. lamuta Herz = *Anarta asiatica* Stdgr. ssp. *rangnowi* Püng.;
 Torne lappmark.
Sympistis heliophila Payk. = *melaleuca* Thunb.;
 Torne lappmark.
S. lapponica Thunb.; Torne lappmark.
S. zetterstedti Stdgr.; Torne lappmark.
S. funebris Hübn.; Torne lappmark, Lule lappmark.
Anartomina sedescens Walk. = *bohemanni* Stdgr.;
 Torne lappmark.
Lasionycta skraelingia H.-S., Torne lappmark.
L. proxima Hübn.; Uppland.
Eriopygodes inbecilla F.; Gästrikland.

Drawer 24

- Hadena filograna* Esp. = *filigrana* Esp. ssp. *xanthocyanea*
 Hübn.; Öland.
Cucullia argentea Hufn.; Skåne.

Drawer 25

- Cucullia lucifuga* D. & S.; Östergötland.
Hillia iris Zett.; Lycksele lappmark; Nordland (Norway).
Lithophane consocia Borkh. = *ingrica* H.-S.; Ångermanland,
 Uppland.
Staurophora (Calotaena) celsia L.; Östergötland, Uppland.

Drawer 26

- Polymixis (Antitype) gemmea* Treits.; Uppland, Södermanland.
P. polymita L.; Uppland.
Conistra rubiginosa Scop. = *vau-punctatum* Esp.; Uppland,
 Östergötland.
Agrochola nitida D. & S.; Öland, Uppland.

Drawer 27

Acronicta cuspis Hübn.; Uppland.
Cryphia raptricula D. & S.; Uppland.
Amphipyra perflua F.; Småland.

Drawer 28

Apamea maillardi Gey. ssp. *schildei* Stdgr.; Nordland (Norway).
 See Goater and Mikkola in references.
A. zeta Treits. ssp. *marmorata* Zett.; Nordland (Norway).
 See Goater and Mikkola in references.
A. lateritia Hufn.; Uppland, Öland.
A. furva D. & S.; Uppland, Öland.
A. illyria Freyer; Uppland, Södermanland, Småland.
A. rubrivena Treits.; Uppland.
Hydraecia nordstroemi Horke; Uppland, Öland.
Calamia tridens Hufn.; Gotland, Halland.

Drawer 29

Phragmitiphila (Nonagria) nexa Hübn.; Närke.
Platyperigia montana Brem. = *Caradrina cinerascens* Tengst.;
 Uppland.
Paradrina (Caradrina) seleni Boisd.; Uppland.
Athetis gluteosa Treits.; Norway, Gotland.
A. lepigone Mosch. ssp. *fennica* Ndsm.; Västerbotten.
Eublemma minutata F. = *noctualis* Hübn. ssp. *egestosa* Drt.;
 Skåne.
Nycteola degenerana Hübn.; Uppland, Södermanland.
Panthea coenobita Esp.; Skåne.
Macdunnoughia confusa Steph.; Uppland, Södermanland.
Lamprotes c-aureum Knoch; Skåne.

Drawer 30

Autographa macrogamma Evers.; Norrbotten.
A. mandarina Freyer; Uppland (Drawer 20).
Syngrapha microgamma Hübn.; Södermanland.
S. hohenwarthii Hochw.; Norway.
S. diasema Boisd.; Norway.
Abrostola asclepiadis D. & S.; Öland, Uppland.
Lygephila viciae Hübn.; Södermanland, Östergötland.
Polypogon (Herminia) tentacularia L.; Uppland (Drawer 20).
P. tentacularia L. ssp. *modestalis* Heyd.; Torne lappmark.
Paracolax tristalis F. = *Herminia glaucinalis* D. & S.; Uppland.

IN MEMORIAM

We regret to announce the death of Mr C. B. Ashby, shortly after the receipt of this article in January 1994. Mr Ashby was a trustee of the BENHS and an active member. The funeral, at which the Society was represented, was held on 21 January. A full obituary will appear in a future issue of the Journal.